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From the Editor's Desk

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From the Editor's Desk

Dear Readers,

This special Conference Issue of IJNS contains a selection of papers from the Astechnova 2015 International Energy Conference held in Yogyakarta, Indonesia (November 25–26). Since these papers were conference presentations, they are not as developed as the articles we normally publish, nor was it necessary to put them through the full process of editorial review. Yet they all offer quite valuable snapshots of issues, developments, strategies, and solutions in the field of international nuclear security, written/delivered by leading professionals and scholars. You will appreciate these papers for this reason – and also, no doubt, for their pleasing brevity!

The first three papers presented here focus on nuclear security in Indonesia: nuclear and regulatory frameworks, cultural issues, and security for medical facilities that use nuclear materials.

We lead off with a paper by Dahlia Cakrawati Sinaga of Badan Pengawas Tenaga Nuklir (BAPTEN), Indonesia's nuclear energy regulatory agency: "Legal and Regulatory Framework of Nuclear Security in Indonesia." Sinaga provides a very helpful discussion of Indonesia's legal and regulatory developments, and its cooperation with global developments, in nuclear security. Next comes an enlightening — and broadly applicable — discussion of cultural issues in Indonesian nuclear security: "Nuclear Security Culture and BATAN's Assessment: BATAN's Experience," by Anhar R. Antariksawan and Khairul Khairul of the National Nuclear Energy Agency of Indonesia (BATAN). The third paper focussing on Indonesia offers a "fault tree analysis" method for analyzing the effectiveness of security strategies as applied to facilities less complex/extensive than NPPs: medical facilities. Its authors, from the Department of Nuclear Engineering and Engineering Physics at the Universitas Gadjah Mada in Yogyakarta, are Haryono Budi Santosa, Susetio Hario Putero, Achmad Chilmi Nur, Samsiatun Mudzkiyah, and Sheila Amalia.

The following paper, by James Larkin from the Radiation and Health Physics Unit at the University of Witwatersrand, Republic of South Africa, discusses "Opportunities and Challenges in Developing Nuclear Security in Africa." This is a wide-ranging, well-structured, and eye-opening discussion about nuclear history, developments, and security across the African continent.

The final article in this issue, "Nuclear Security Risk Analysis: An Insider-Outsider Collusion Scenario," is by Mohammad A. Hawila and Sunil S. Chirayath of the Nuclear Security Science & Policy Institute, Department of Nuclear Engineering at Texas A&M University, USA. It presents and expands upon a "modified adversary sequence diagram," contributing a widely applicable method for assessing the vulnerability of physical protection systems to insider-outside collusion at nuclear facilities.

These excellent discussions of issues and solutions are brief and focused, delivered by international leaders in nuclear security. We are delighted to present them to you in the form of this first Conference Issue of IJNS.

Best regards,

Dr. Russel Hirst

Managing Editor, *International Journal of Nuclear Security*